lo/717, 095

WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY LETTERS PATENT OF THE UNITED STATES IS:

A polymer comprising a repeat unit represented by
 the following formula (I):

wherein, Ar¹ represents a substituted aromatic hydrocarbon group or a non-substituted aromatic hydrocarbon group, Ar² and Ar³ each, independently, represent a divalent aromatic hydrocarbon selected from the group consisting of substituted or non-substituted monocyclic aromatic hydrocarbons, substituted or non-substituted non-condensed polycylic aromatic hydrocarbons and substituted or a non-substituted condensed polycylic aromatic hydrocarbons and Ar⁴ represents a bivalent group of benzene, thiophene, biphenyl or anthracene, each of which can optionally have a substituent.

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2. The polymer according to Claim 1, wherein the repeat unit is represented by the following formula (II):

$$\begin{array}{c}
(R^2)_y \\
 \hline
(R^1)_x
\end{array}$$
CH=CH—Ar⁴—CH=CH

(II)

wherein, Ar^1 represents a substituted aromatic hydrocarbon group or a non-substituted aromatic hydrocarbon group, Ar^4 represents a bivalent group of benzene, thiophene, biphenyl or anthracene, each of which can optionally have a substituent, R^1 and R^2 each, independently, represent a halogen atom, a substituted or non-substituted alkyl group, a substituted or non-substituted alkoxy group or a substituted